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JP5315064 **Patent** **Page 1**



## HIGH FREQUENCY WELDING DEVICE

Patent Number: JP5315064  
Publication date: 1993-11-26  
Inventor(s): OKAMOTO YOSHIMASA; others: 01  
Applicant(s): NIPPON KINZOKU CO LTD; others: 01  
Requested Patent: ☐ JP5315064  
Application Number: JP19920115853 19920508  
Priority Number(s):  
IPC Classification: H05B6/10 ; H05B6/36  
EC Classification:  
Equivalents: JP3112560B2

### Abstract

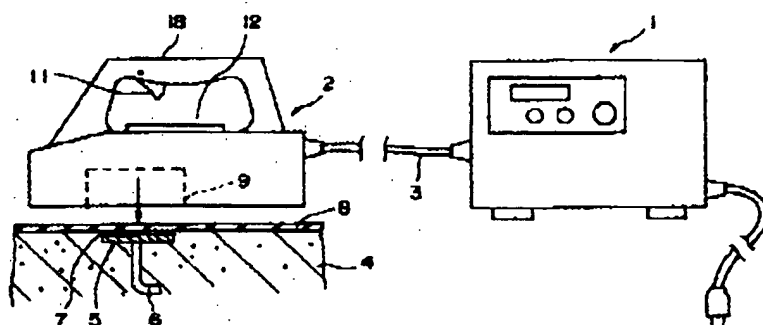
**PURPOSE:** To detect a position relation between a coil and a mounting member, completion of heat welding, etc., by detecting impedance of a high frequency heating coil in a heating part by a detecting circuit, and performing a display corresponding to a change of the impedance.  
**CONSTITUTION:** A mounting member 5 is buried in concrete of a member in a fixed side, for instance, land roof 4 of a building. The member 5 is a metallic disk and buried in the concrete with a predetermined space. The member 5 is coated with a heat welding bonding agent 7. A thermoplastic waterproof sheet 8 is piled on the roof 4. The member 5 is heated by a high frequency heating coil 2 on the sheet 8 to bond it to the member 5. When turned on a starting switch 11 provided in a handle 18 of the heating part 2, a lamp in a heating display part 12 is turned on, and when a position of the member 5 agrees with a position of a coil 9, impedance detected by a detecting circuit in a main unit 1 is increased to a maximum to turn on a position display lamp. Just before completing welding the member 5 to the sheet 8, the impedance is rapidly increased to turn on a welding display lamp.

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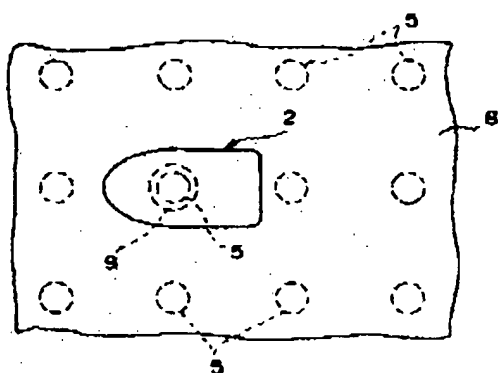
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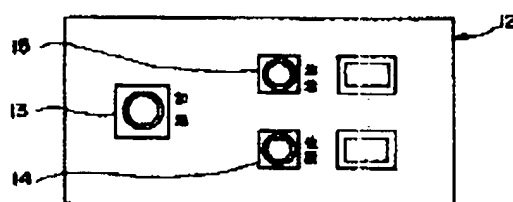
【図1】



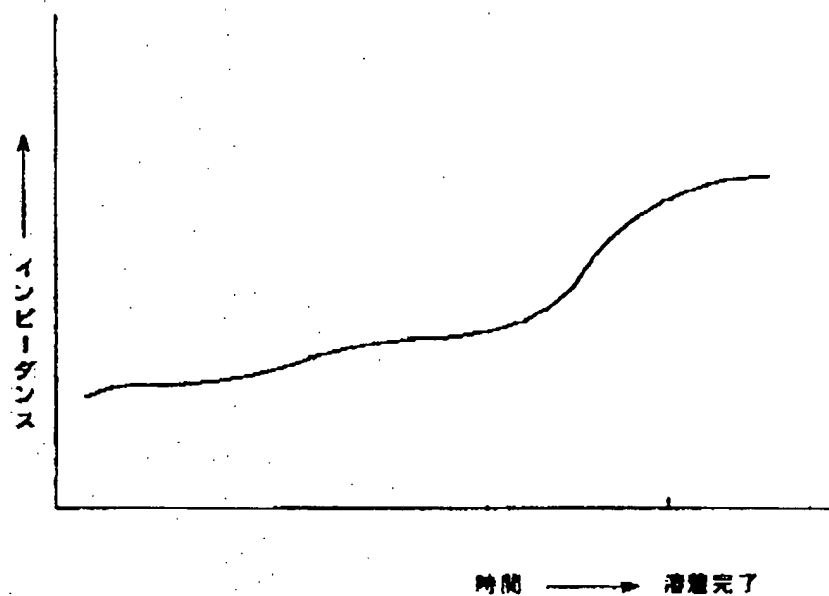
【図2】



【図3】



【図6】



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【図4】

